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Applicants (Actual Inventors) { ARTHUR SAMSON COX.
 { DOROTHY EMILY COX.
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 Complete Specification after Provisional Lodged, 19th October, 1938.
 Specification
 Complete Specification Accepted, 30th November, 1938.
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Class 87.2.

Drawing attached.

COMPLETE SPECIFICATION.

"Surgical douche apparatus."

We, ARTHUR SAMSON COX, Osteopath, and DOROTHY EMILY COX, Nurse, both of 24 Ethel Street, Burwood, in the State of New South Wales, Commonwealth of Australia, hereby declare this invention, and the manner in which it is to be performed, to be fully described and ascertained in and by the following statement:—

Our invention provides improved apparatus for douching and irrigating for a variety of surgical and similar purposes, and particularly for injecting curative and other fluids into the colon.

Our invention will be described with reference to the accompanying drawing wherein:—

Figs. 1 and 2 are side elevations the right hand side of each figure being in central section.

Fig. 3 is a plan of the apparatus and

Fig. 4 an elevation of a valve stem.

A conical spray nozzle 1, adapted for insertion in the part into which the fluid is to be injected, has an integral domical pressure cap 2 provided with an axial hole 3 which slidably receives a cylindrical nipple 4 integral with a flange 5 upon a casing 6 to the interior of which fluid under pressure is

supplied through a pipe 7 connected by a flexible tube to a tank or other container.

A tubular valve stem 8 (shown independently in Fig. 4) has a cylindrical portion 9 which is a sliding fit in a hole in nipple 4 its upper end being tapered to fit closely into spray nozzle 1.

A valve 10 integral with stem 8 is normally closed upon a seat 11 in the casing, by a compression spring 12 which bears against the bottom of the valve stem, its pressure thereon being regulable by a screw plug 13 in the bottom of the casing.

In an annular recess 16, above valve 10, are portways 14 leading to the interior of the valve stem through which fluid passes to the nozzle which has spray apertures 15.

The following is given as an example of the operation of our invention:—

When fluid is to be injected through the rectum the spray nozzle (which then is in the position shown in Fig. 1) is inserted and pressure, due to the weight of the patient upon the pressure cap, causes it to descend, into the position shown in Fig. 2. The valve stem 8 being thereby pushed down removes valve 10 from its seat and permits fluid to pass into the valve stem and thence into the spray nozzle.

Having now fully described and ascertained our said invention and the manner in which it is to be performed, we declare that what we claim is:—

- 5 1. Surgical douche apparatus comprising in combination a spray nozzle provided with a pressure cap and slidable upon a cylindrical extension from a casing, a tubular valve stem slidable through the extension and fitting into the spray nozzle, a valve upon the stem seated in the casing, spring means for seating the valve, means for the supply of fluid to the casing and apertures in the valve stem above said valve through which fluid
10 passes into the spray nozzle.
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2. Douching apparatus characterised in that the weight of the patient, to whom the douche is administered, causes a valve to open whereby fluid under pressure is permitted to pass into the stem of the valve
5 wherethrough it passes into a spray nozzle.

3. Douching apparatus comprised of parts constructed arranged and co-operating substantially as herein described and illustrated in the drawings.
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Dated this 18th day of October, 1938.

H. H. RAYWARD,
Attorney for Applicant.

Witness—I. O'Keeffe.

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